

NTK03-1576

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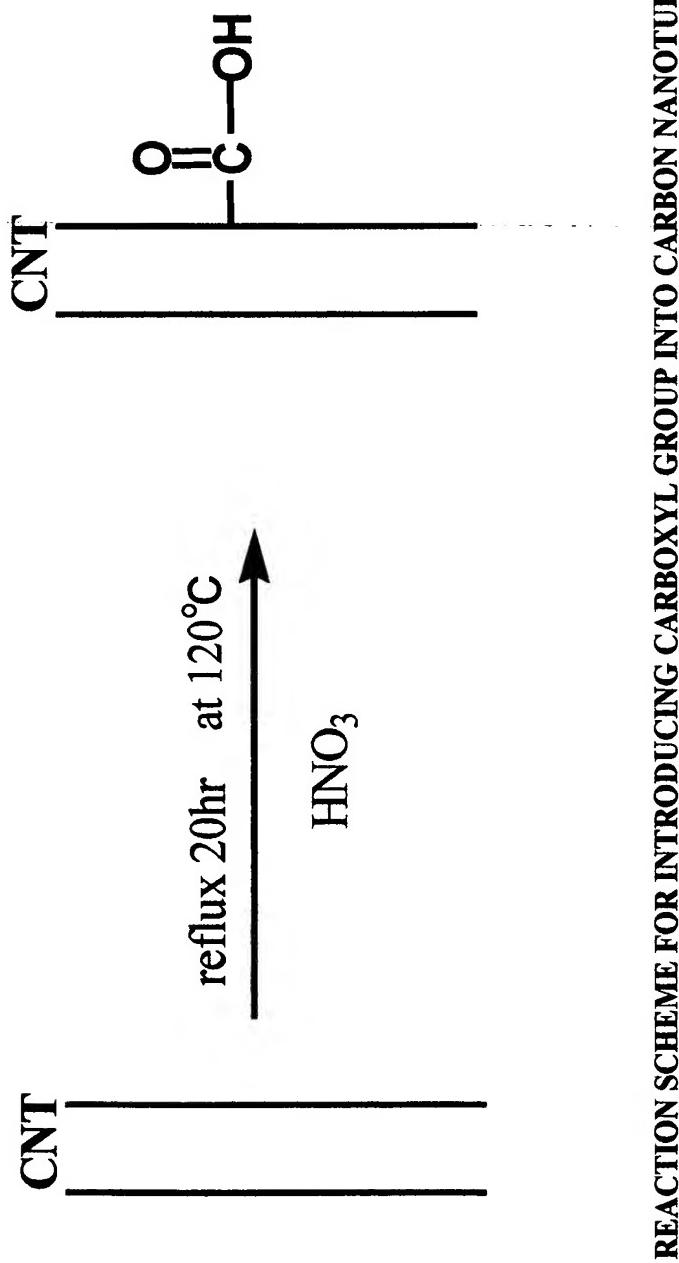
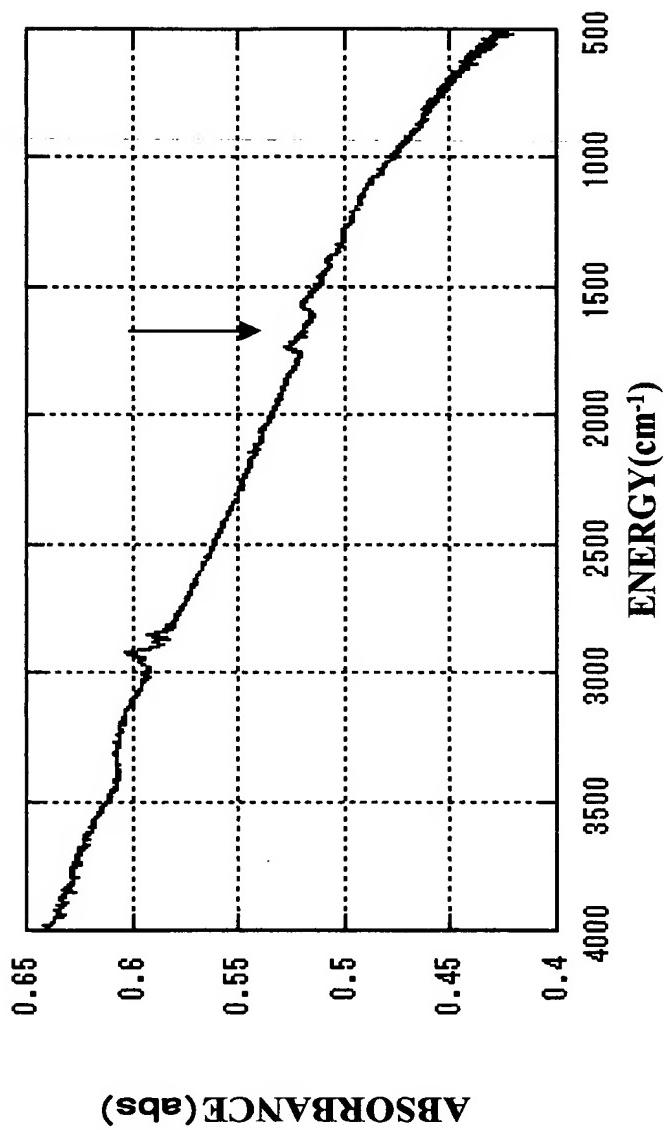


Fig. 1

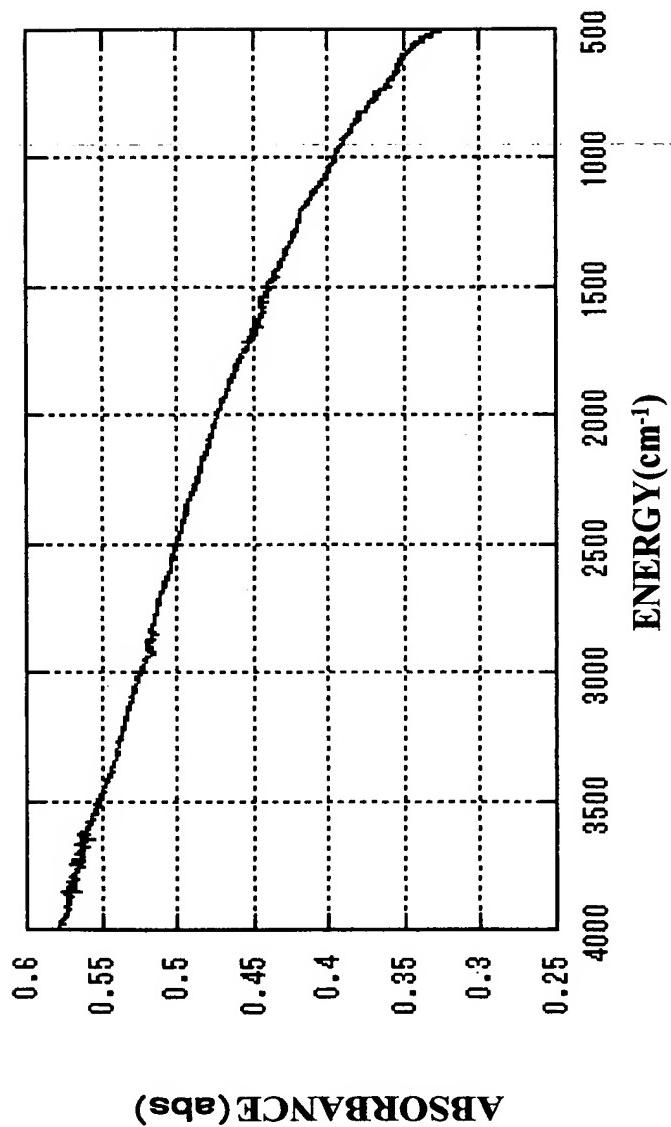
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INFRARED ABSORPTION SPECTRUM OF MULTI-WALL CARBON  
NANOTUBE CARBOXYLIC ACID

Fig. 2

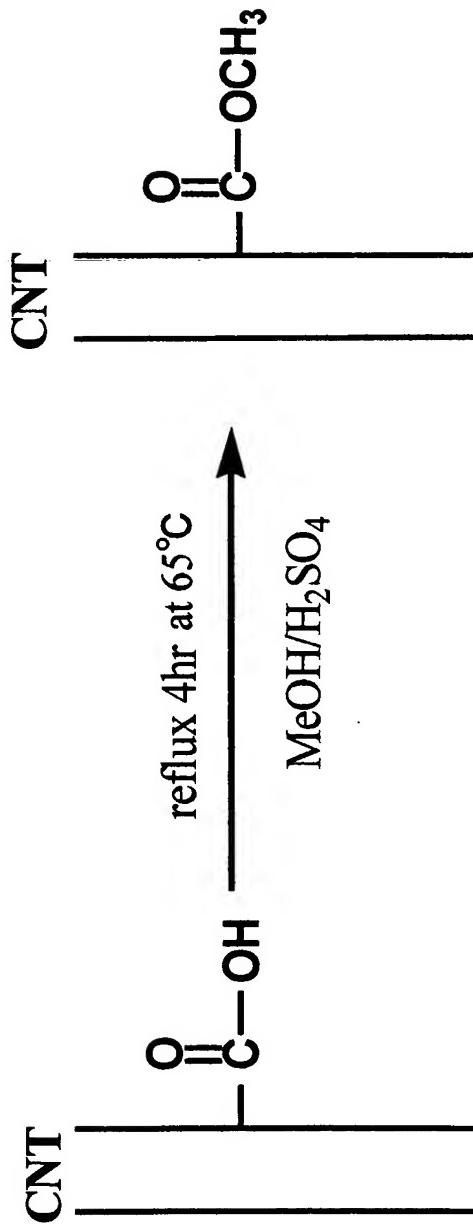
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INFRARED ABSORPTION SPECTRUM OF MULTI-WALL CARBON  
NANOTUBE RAW MATERIAL

Fig. 3

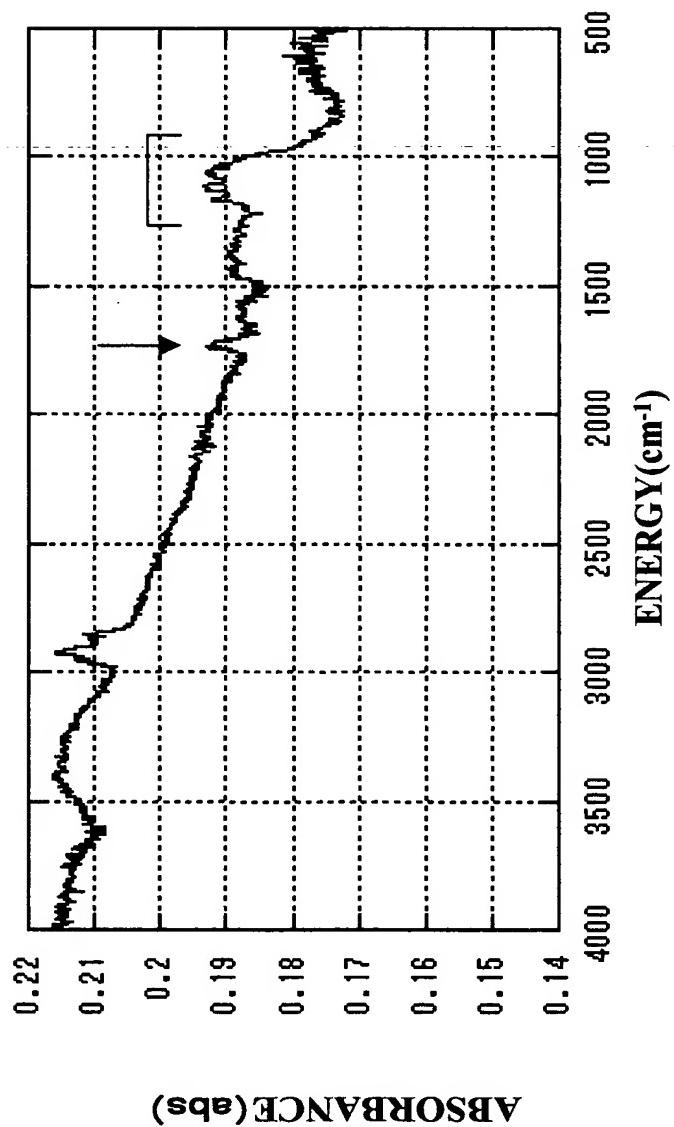
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SCHEME FOR METHYL ESTERIFICATION REACTION OF CARBON NANOTUBE CARBOXYLIC ACID

Fig. 4

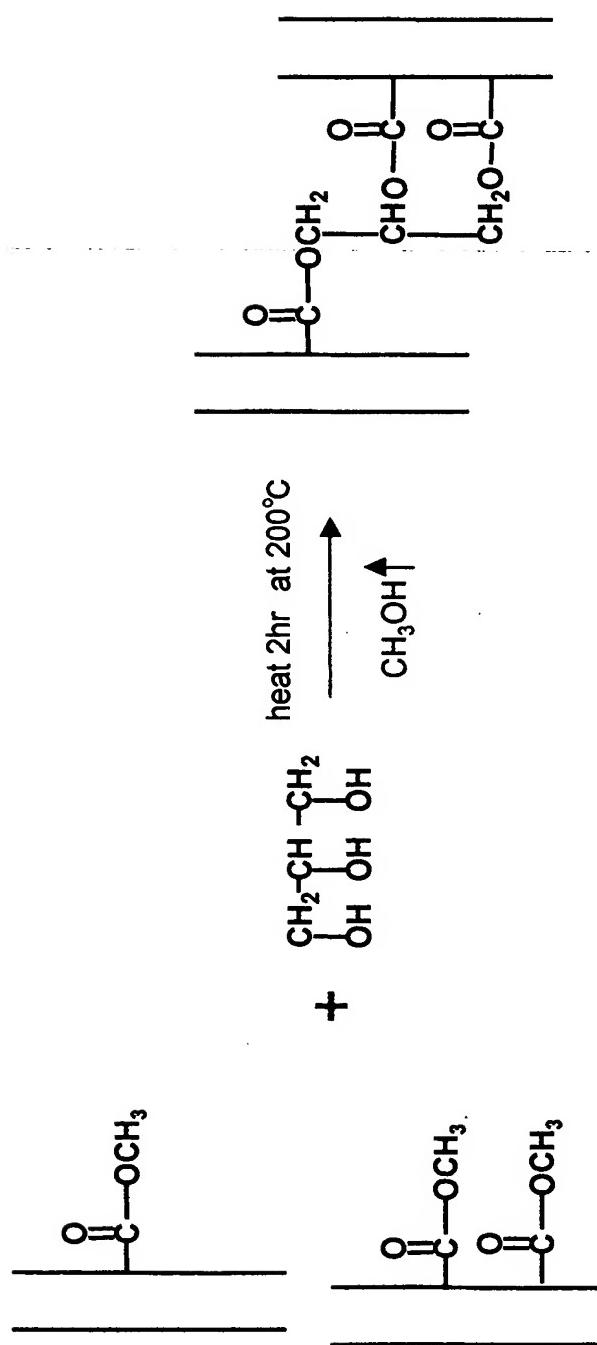
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INFRARED ABSORPTION SPECTRUM OF MULTI-WALL CARBON NANOTUBE  
CARBOXYLIC ACID METHYL ESTER

Fig. 5

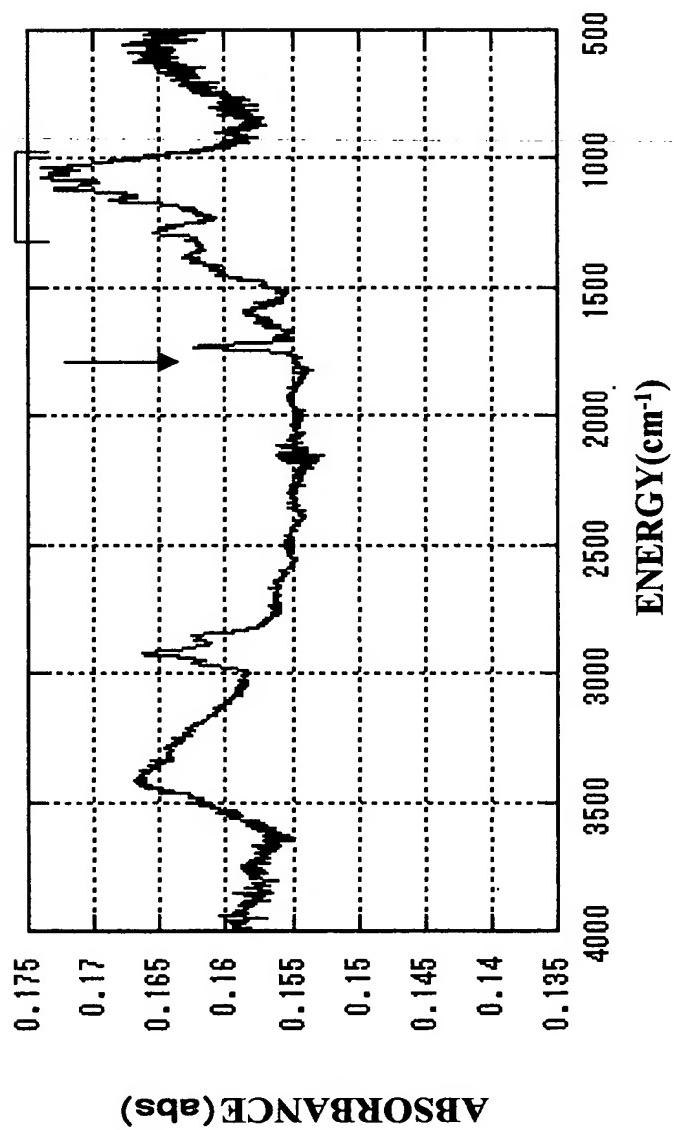
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SCHEME FOR POLYMERIZATION REACTION BETWEEN CARBON NANOTUBE  
CARBOXYLIC ACID METHYL ESTER AND GLYCERIN BY ESTER EXCHANGE

Fig. 6

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INFRARED ABSORPTION SPECTRUM OF ESTER OF MULTI-WALL CARBON NANOTUBE  
CARBOXYLIC ACID AND GLYCERIN

Fig. 7

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× 5000

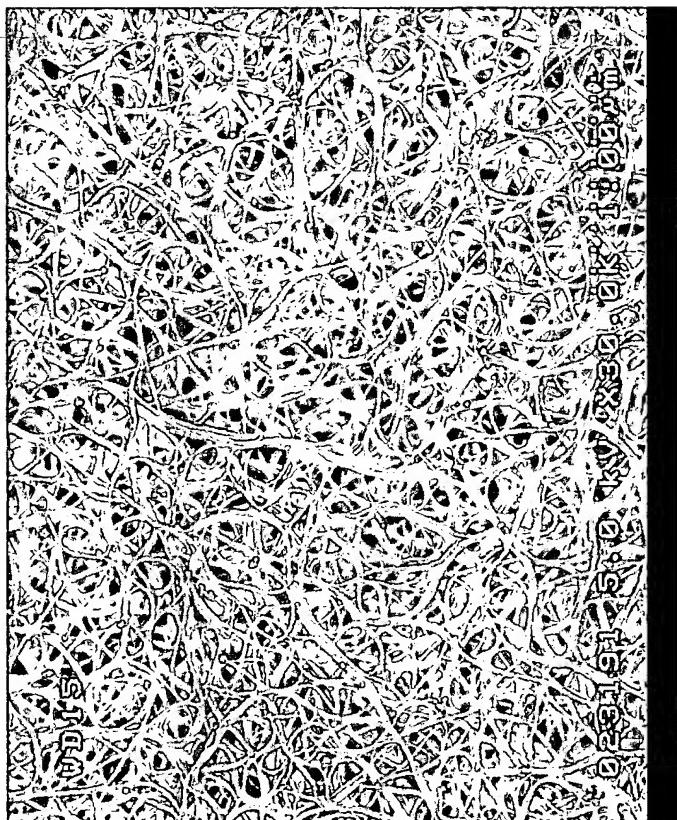
Fig. 8(a)



× 20000

Fig. 8(b)

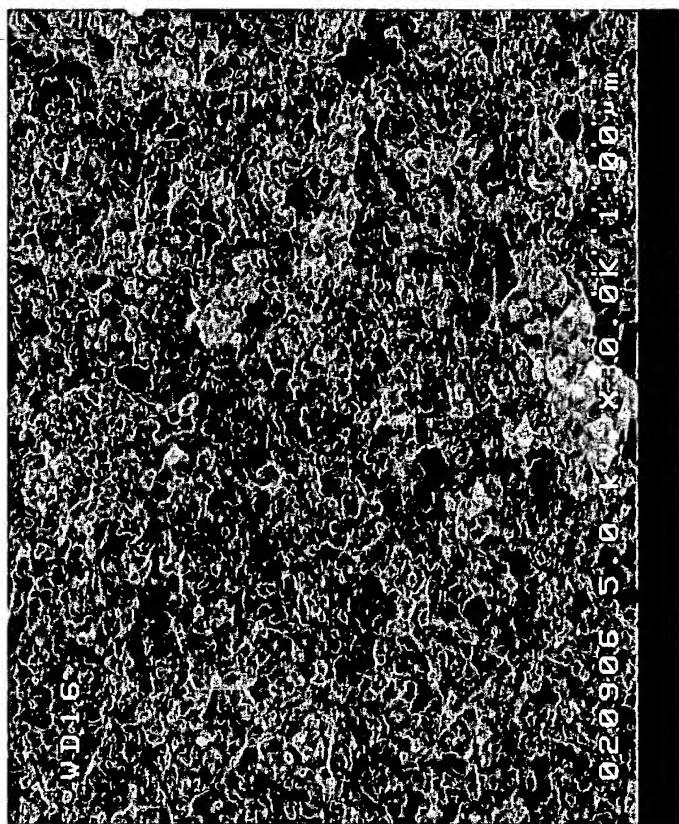
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ELECTRON MICROSCOPE PHOTOGRAPH OF PURIFIED  
SINGLE-WALL CARBON NANOTUBE  
(AT MAGNIFICATION OF 30,000)

Fig. 9

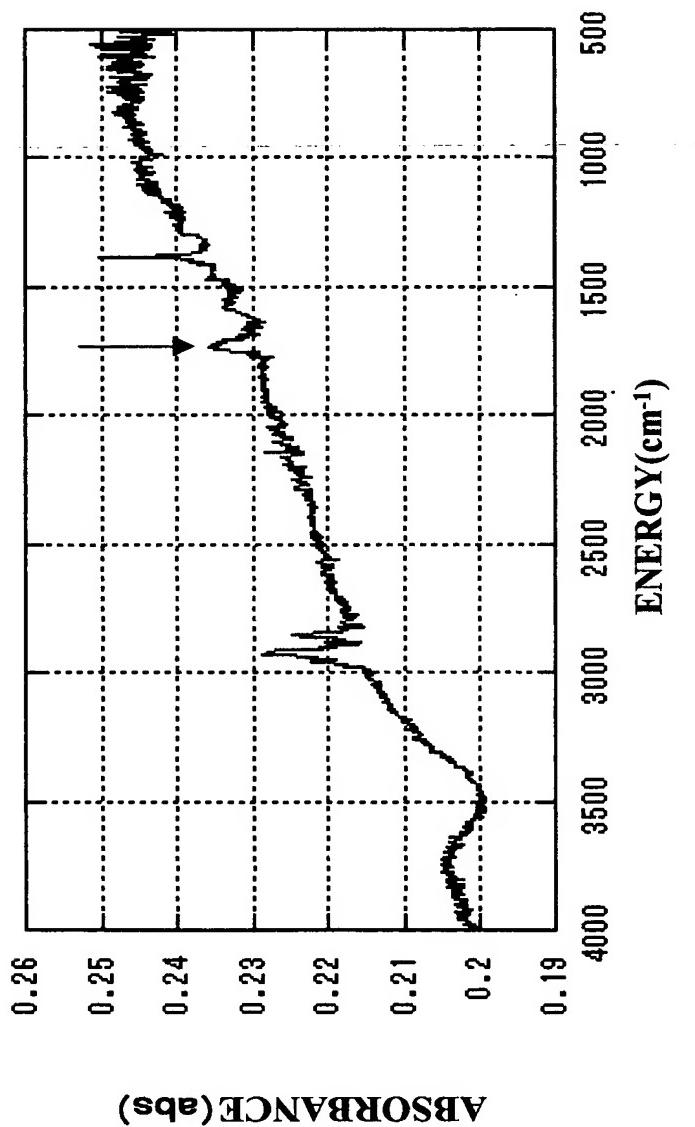
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ELECTRON MICROSCOPE PHOTOGRAPH OF SINGLE-WALL CARBON NANOTUBE AS RAW MATERIAL  
(AT MAGNIFICATION OF 30,000)

Fig. 10

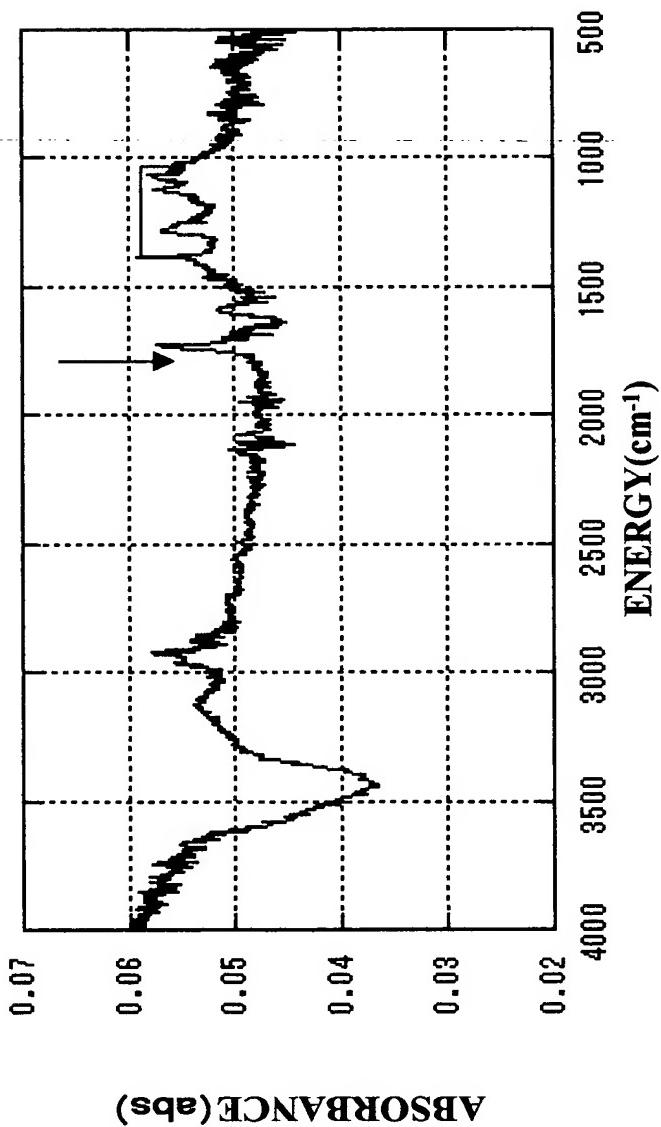
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INFRARED ABSORPTION SPECTRUM OF SINGLE-WALL CARBON NANOTUBE  
CARBOXYLIC ACID

Fig. 11

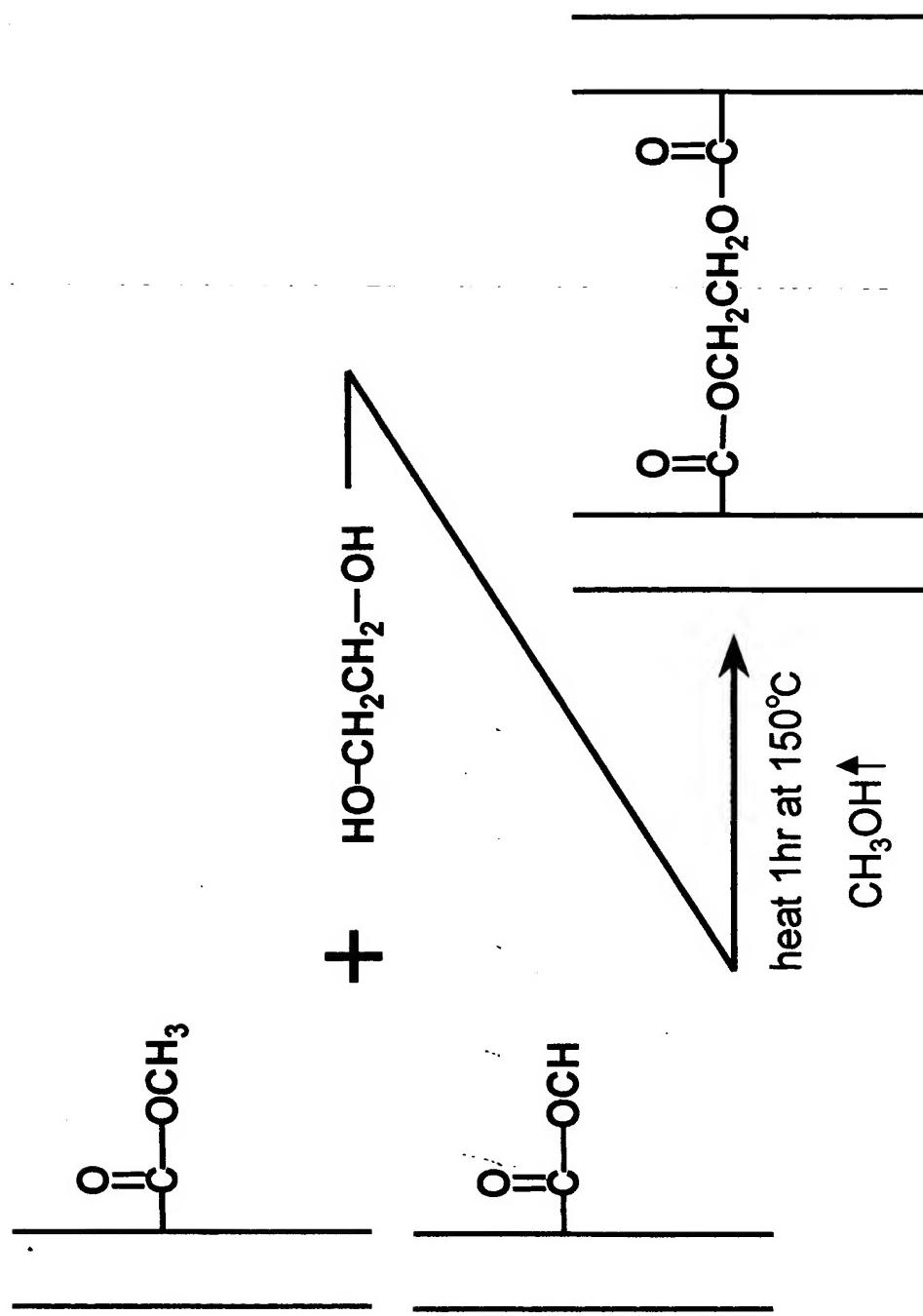
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INFRARED ABSORPTION SPECTRUM OF SINGLE-WALL CARBON NANOTUBE  
CARBOXYLIC ACID METHYL ESTER

Fig. 12

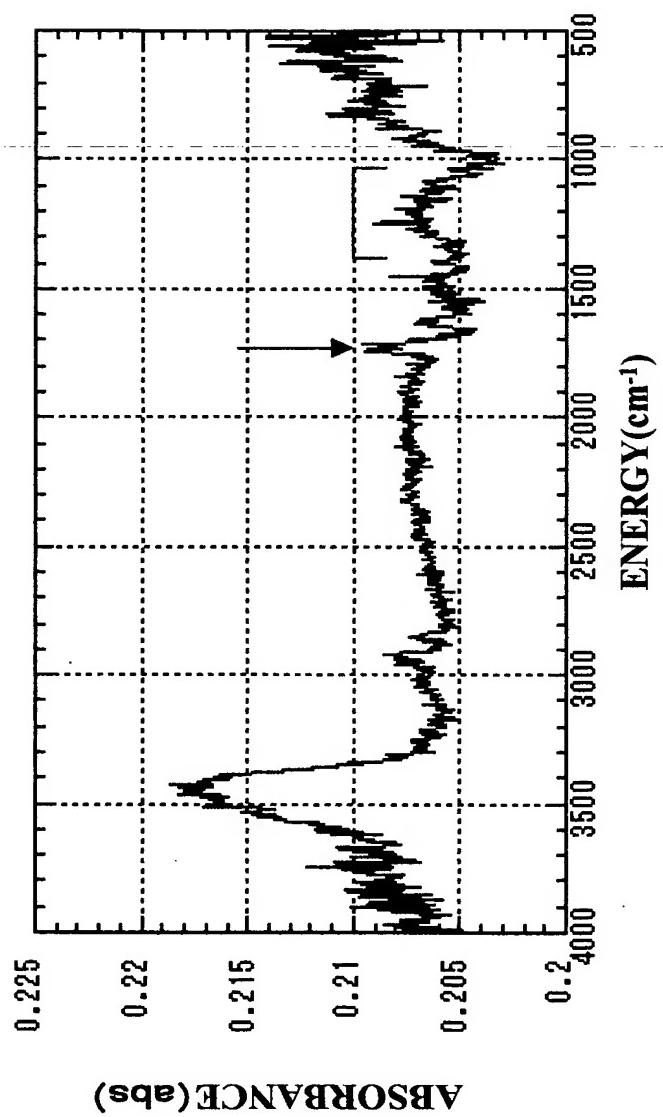
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SCHEME FOR POLYMERIZATION REACTION BETWEEN MULTI-WALL CARBON  
NANOTUBE CARBOXYLIC ACID METHYL ESTER AND ETHYLENE GLYCOL

Fig. 13

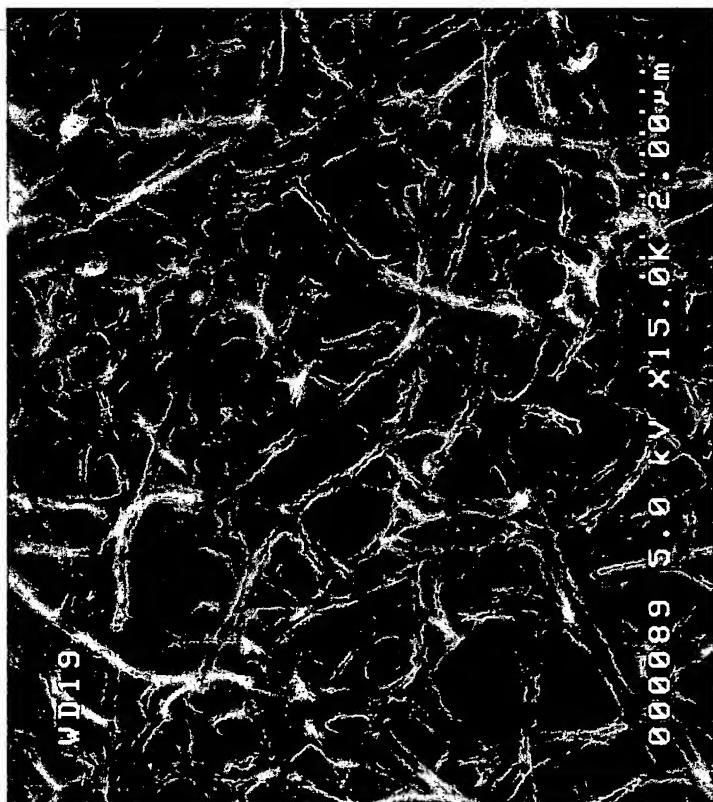
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INFRARED ABSORPTION SPECTRUM OF ESTER OF MULTI-WALL CARBON  
NANOTUBE CARBOXYLIC ACID AND ETHYLENE GLYCOL

Fig. 14

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SEM PHOTOGRAPH OF ESTER OF MULTI-WALL CARBON NANOTUBE CARBOXYLIC ACID AND ETHYLENE GLYCOL: AT MAGNIFICATION OF 15,000

Fig. 15

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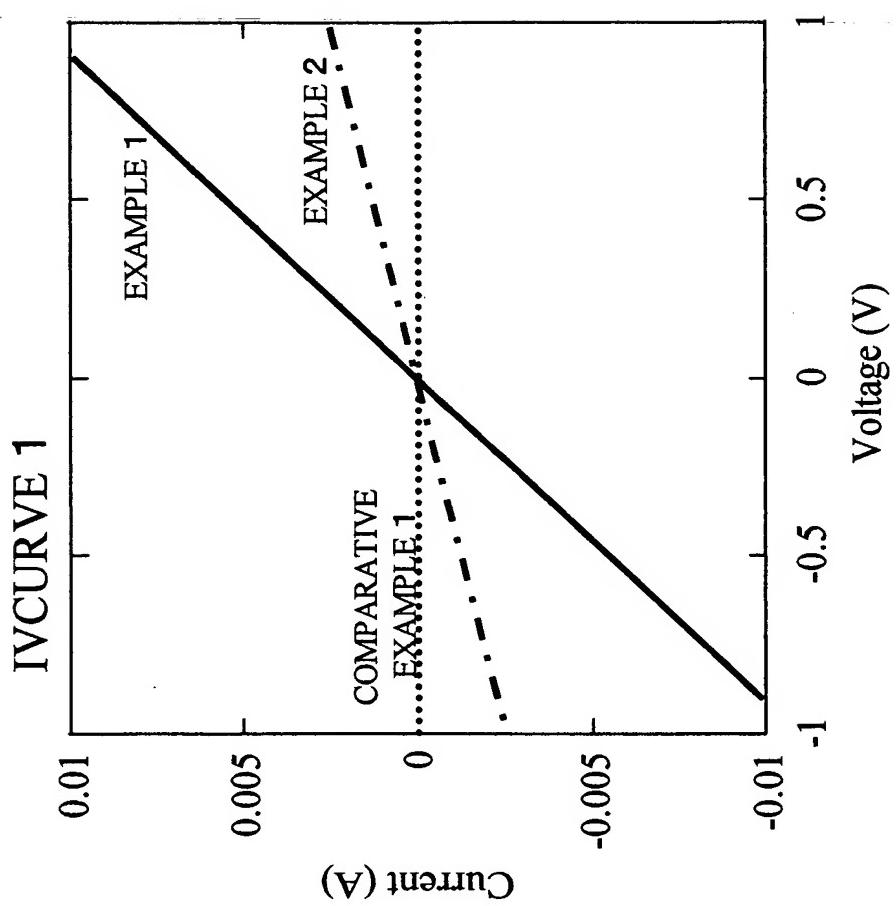


Fig. 16

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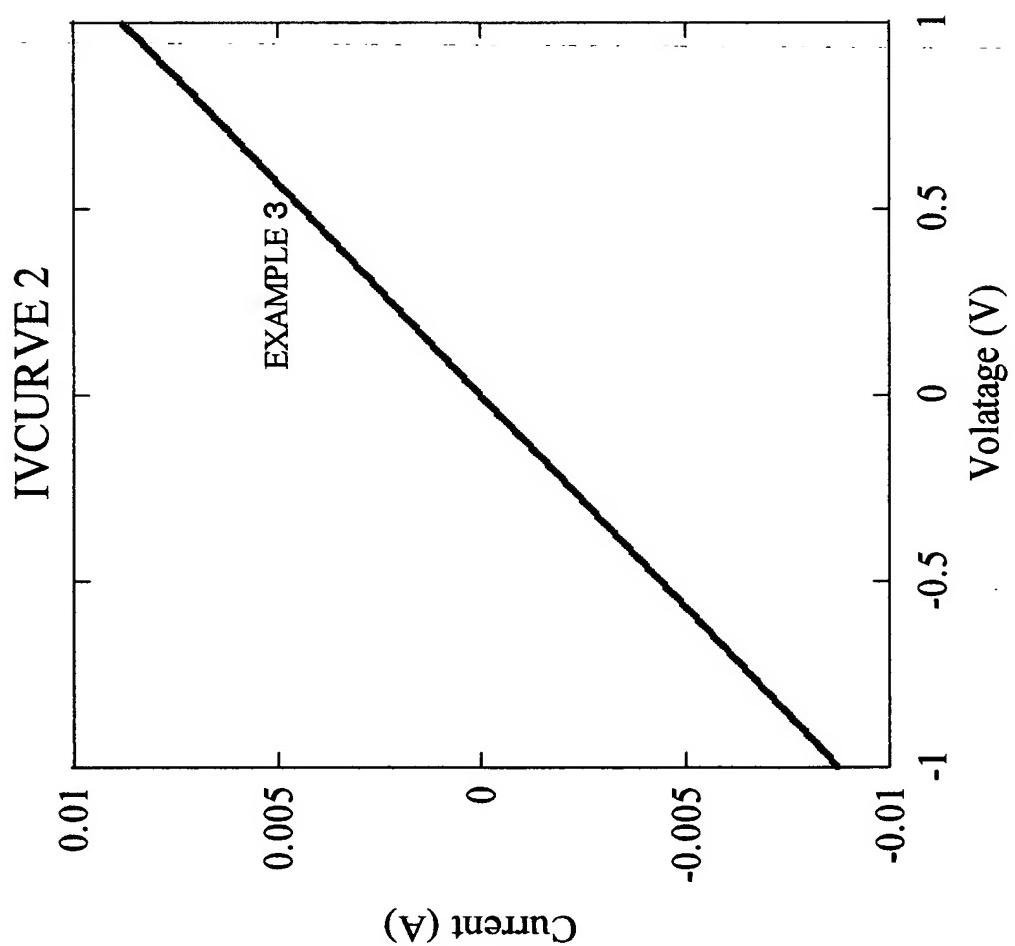


Fig. 17

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REFLECTION SPECTRUM

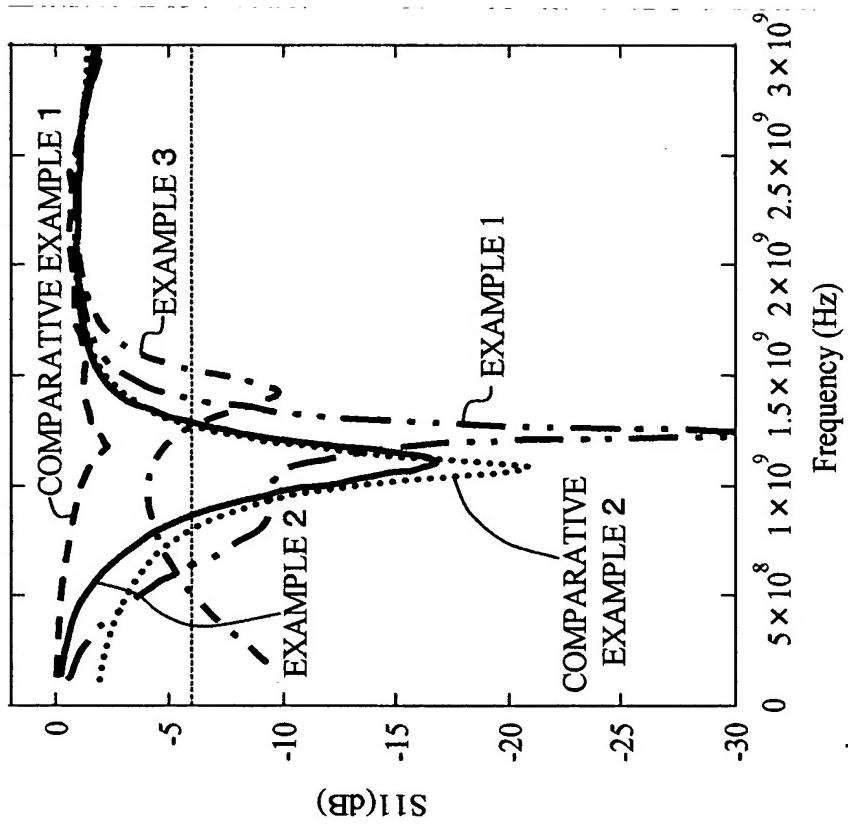


Fig. 18

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